APPLIED PSYCHOLOGICAL MEASUREMENT



VOLUME 1 1977

Printed in the United States of America by West Publishing Co., 50 W. Kellogg Boulevard, P.O. Box 2526, St. Paul, MN 55165 Copyright © 1977 by West Publishing Company

Editor David J. Weiss, University of Minnesota

Us

So An In

L

EDITORIAL BOARD	A. Ralph Hakstian, University of British Columbia	David Magnusson, University of Stockholm
Hubert E. Brogden, Purdue University	Ronald K. Hambleton, University of Massachusetts	Samuel Messick, Educational Testing Service
John B. Carroll,	Ontreisity of Mussuchuseits	•
University of North Carolina	Wayne H. Holtzman, University of Texas at Austin	Jum C. Nunnally, Vanderbilt University
Norman Cliff,		
University of Southern California	John L. Horn, University of Denver	John E. Overall, University of Texas
Jacob Cohen,		
New York University	Lloyd G. Humphreys, University of Illinois, Urbana-	Joseph R. Royce, University of Alberta
Clyde H. Coombs,	Champaign	F
University of Michigan	Develop N. J. J.	Fumiko Samejima,
Allen L. Edwards.	Douglas N. Jackson,	University of Tennessee
University of Washington	University of Western Ontario	Lyle Schoenfeldt,
University of Washington	Lawrence E. Jones,	Rensselear Polytechnic Insti-
Eric F. Gardner,	University of Illinois, Urbana-	tute, Computer Program
Syracuse University	Champaign	Exchange Editor
Lewis R. Goldberg,	James Lumsden,	Howard Wainer,
University of Oregon	The University of Western Australia	Bureau of Social Science Re search, Book Review Editor
Louis Guttman,	tratta	Search, Book Review Luttor
Israel Institute of Applied	Clifford E. Lunneborg,	Forrest W. Young,
Social Research	University of Washington	University of North Carolina

ARTICLES - Volume 1

МІ

Content Validity—the Source of my Discontent. (Invited address to the Division of Measurement and Evaluation, American Psychological Association, 1975)	
Robert M. Guion	1
On the Relationships Between Short-Term Learning and Fluid and Crystallized Intelligence	
P.S. Hundal and John L. Horn	11
Stylistic Components of Human Judgment: the Generality of Individual Differences	
Nerella V. Ramanaiah and Lewis R. Goldberg	23
Further Study of Cognitive Processing Models for Inventory Response	
Norman Cliff	41
Inter-Inventory Predictability and Content Overlap of the 16 PF and the CPI	
John B. Campbell and Ki-Taek Chun	51
Ability Factor Differentiation, Grades 5 through 11	
Robert Atkin, Robert Bray, Mark Davison, Sharon	
Herzberger, Lloyd Humphreys, and Uzi Selzer	65
Effects of Individual Optimization in Setting the Boundaries of Dichotomous Items on the Accuracy of Estimation	
Fumiko Samejima	77
A Broad-Range Tailored Test of Verbal Ability	
Frederic M. Lord	95

Using Computerized Tests to Measure New Dimensions of Abilities: An Exploratory Study	
Charles H. Cory, Bernard	
Rimland and Rebecca Bryson	101
Bayesian Tailored Testing and the Influence of Item Bank Characteristics	
Carl J. Jensema	111
Some Properties of a Bayesian Adaptive Ability Testing Strategy	
James R. McBride	121
An Empirical Investigation of the Stratified Adaptive Computerized Testing Model	
Brian K. Waters	141
Interactive Multidimensional Scaling of Cognitive Structure Underlying Person Perception	
Jerard Kehoe and Thomas J. Reynolds	155
A Quantitative Method for Separation of Semantic Subspaces	155
Oliver C. S. Tzeng	171
The Item Factor Structure of the Personality Research Form	1/1
Edward Helmes and Douglas N. Jackson	185
Comparison of the Null Distributions of Weighted Kappa and C Ordinal Statistic	105
Domenic V. Cicchetti and Joseph L. Fleiss	195
Studies of Voluntary Visual Attention—Theory, Methods, and Psychometric Issues	193
Jum C. Nunnally, L. Charles Lemond,	
and William H. Wilson	203
Dimensions of Adolescent Alienation	203
	210
James Mackey and Andrew Ahlgren A Use of the Information Function in Tailored Testing	219
Fumiko Samejima	233
Predictions of Academic Performance in Graduate and Professional School	
Pang-chieh Lin and Lloyd G. Humphreys	249
Effects of Immediate Knowledge of Results and Adaptive Testing on Ability Test Performance	
Nancy E. Betz	259
Suppose We Measure Height With Rating Scales Instead of Rulers	E.u.
Robyn M. Dawes	267
Alternatives for Validating Interest Inventories Against Group Membership Criteria	
Dale J. Prediger	275
Best Procedures for Sample-Free Item Analysis	
Benjamin D. Wright and Graham A. Douglas	281
Choice Reaction Time: What Role in Ability Measurement?	
Clifford E. Lunneborg	309
Planning an Experiment in the Company of Measurement Error	
Joel R. Levin and Michael J. Subkoviak	331
What If We Administered the "Wrong" Inventory? The Prediction of Scores on Personality Re-	
search Form Scales from Those on the California Psychological Inventory, and Vice Versa	
Lewis R. Goldberg	339
On the Equivalence of Constructed-Response and Multiple-Choice Tests	
Ross E. Traub and Charles W. Fisher	355
Discriminant Analysis with Categorical Data	
John E. Overall and J. Arthur Woodward	371
The CES-D Scale: A Self-Report Depression Scale for Research in the General Population	
Lenore Sawyer Radloff	385
Intransitivity on Paired-Comparison Instruments: The Relationship of the Total Circular Triad	
Score to Stimulus Circular Triads	
Darwin D. Hendel	403
Development of a Self-Report Inventory for Assessing Individual Differences in Learning	
Processes	
Ronald Ray Schmeck, Fred Ribich,	
and Nerella Ramanaiah	. 413

Scoring Field Dependence: A Methodological Analysis of Five Rod-and-Frame Scoring Systems Bill McGarvey, Geoffrey Maruyama,	
and Norman Miller	433
Some Item Analysis and Test Theory for a System of Computer-Assisted Test Construction for In- dividualized Instruction	
Frederic M. Lord	447
Information-Processing on Intelligence Test Items: Some Response Components	
Susan E. Whitely	465
Person Reliability	
James Lumsden	477
Test-Free Person Measurement with the Rasch Simple Logistic Model	
Howard E. A. Tinsley and René V. Dawis	483
Empirical Item Keying Versus a Rational Approach to Analyzing a Psychological Climate Questionnaire	
Christopher W. Hornick, Lawrence R.	
James, and Allan P. Jones	489
A Replication Study of Item Selection for the Bem Sex Role Inventory	
Allen L. Edwards and Clark D. Ashworth	501
An Application of the Continuous Response Level Model to Personality Measurement	
Isaac I. Bejar	509
A Multitrait-Multirater Analysis of a Behaviorally-Anchored Rating Scale for Sales Personnel	
John M. Ivancevich	523
Psychologist Versus Client Perspectives in the Assessment of Psychopathology	020
Brian Bolton	533
Effects of Computerized Administration on Scores on the Minnesota Multiphasic Personality Inventory	000
Bruce H. Biskin and Ronette L. Kolotkin	543
Relative Utility of Computerized Versus Paper-and-Pencil Tests for Predicting Job Performance	
Charles H. Corv	551
The Relationship Between the Perceived Risk and Attractiveness of Gambles: A Multidimensional Analysis	
Thomas E. Nygren	565
Applicability of the Rasch Model with Varying Item Discriminations	-
Thomas E. Dinero and Edward Haertel	581
Optimal Cutting Scores Using a Linear Loss Function	
William J. van der Linden and	
Gideon J. Mellenbergh	593
BRIEF REPORTS	
Brief Report: Interrater Agreement of Experts' Fear of Success Imagery Scoring	
John R. Moreland and Nechama Liss-Levinson	153
Brief Report: Behavioral Validation of Vocational Needs Scale	193
Darwin D. Hendel	307
	307
BOOK REVIEWS	
Book Review—Discrete Multivariate Analysis: Theory and Practice	
Peter B. Imrey, Reviewer	297
Book Review—Multivariate Statistical Methods in Behavioral Research	
Maurice M. Tatsuoka, Reviewer	457
Computer Program Exchange	40, 402

SUBSCRIPTION RATES (Four issues per volume, quarterly): Libraries and Institutions—in the U.S. and Canada, \$40.00; elsewhere, \$50.00. Individuals—in U.S. and Canada, \$20.00; elsewhere, \$25.00. Individual subscriptions must be accompanied by a personal check or money order.

N